

PROJECT DESCRIPTION
GENERAL

THIS PROJECT INVOLVES THE MODIFICATION TO THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 45 AT FAIRMOUNT AVE/CARVER SCHOOL ENTRANCE IN BALTIMORE COUNTY, MD 45 IS CONSIDERED TO RUN IN A NORTH/SOUTH DIRECTION.

THIS MODIFICATION IS DUE TO THE WIDENING OF THE CARVER SCHOOL ENTRANCE AND RELOCATION OF THE SIDEWALK IN THE NORTHWEST CORNER.

INTERSECTION OPERATION

THE EXISTING INTERSECTION OPERATION IS TO REMAIN UNCHANGED.

SPECIAL NOTES

1. THE CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

MS. ERIN KUHN, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: 410-229-2381
MR. DONALD SCHAFER, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410)-229-2421
MR. ANDRE FUTRELL, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: 410-229-2361
MR. MICHAEL PASOARIELLO, UTILITY ENGINEER
PHONE: 410-229-2341
MR. AVIJIT MAJI, CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. EDWARD RODENHIZER, SUPERVISOR, SIGNAL OPERATIONS
PHONE: (410) 787-7652

2. ALL INTERNAL CABINET WIRING SHALL BE PERFORMED BY THE SHA SIGNAL SHOP. CONTRACTOR SHALL CONTACT ED RODENHIZER 72 HOURS PRIOR TO CONSTRUCTION.

3. APS WILL FUNCTION AS FOLLOWS:

FOR MD 45 (YORK ROAD)

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS YORK OF FAIRMOUNT, WAIT."
B. WHEN WALK PHASE BEGINS, THE AUDIBLE SOUND WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

FOR SCHOOL ENTRANCE

- A. WHEN PEDESTRIAN LOCATES AND PRESSES PUSHBUTTON FOR AN EXTENDED TIME, THE PUSHBUTTON MESSAGE WILL BE "WAIT TO CROSS SCHOOL ENTRANCE OF YORK ROAD, WAIT."
B. WHEN WALK PHASE BEGINS, THE AUDIBLE SOUND WILL BE A RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE WALK PHASE.

EQUIPMENT LIST

- A. EQUIPMENT TO BE SUPPLIED BY THE MARYLAND STATE HIGHWAY ADMINISTRATION.
NONE.
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

QUANTITY	UNITS	DESCRIPTION
LUMP SUM	LS	MAINTENANCE OF TRAFFIC
LUMP SUM	LS	MOBILIZATION
2	EA	10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY COUPLING BASE
2	EA	AUDIBLE PEDESTRIAN PUSHBUTTON ASSEMBLY WITH PUSHBUTTON SIGN
2	EA	16 IN. 1-SECTION, 1-WAY LED (COUNTDOWN) PEDESTRIAN SIGNAL HEAD - POST TOP
1	CY	TEST PIT EXCAVATION
75	LF	2-CONDUCTOR CABLE (NO. 14 AWG)
75	LF	5-CONDUCTOR CABLE (NO. 14 AWG)
45	LF	BARE COPPER GROUND WIRE (NO. 6 AWG)
40	LF	2 IN. PVC CONDUIT [SCHEDULE 80] - TRENCHED
1.0	CY	CONCRETE FOUNDATION FOR TRAFFIC SIGNAL EQUIPMENT
2	EA	GROUND ROD - 3/4 IN. X 10 FT. LENGTH
550	LF	12 IN. WHITE THERMOPLASTIC PAVEMENT MARKING - CROSSWALK
24	LF	24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING - STOP LINE
350	LF	REMOVE EXISTING PAVEMENT MARKING BY GRINDING
1	EA	ADJUST VIDEO DETECTOR
2	EA	REMOVE AND DISPOSE OF EXISTING CONCRETE FOUNDATION 12 INCHES BELOW GRADE
LUMP SUM	LS	REMOVE EXISTING SIGNAL EQUIPMENT

GENERAL NOTES

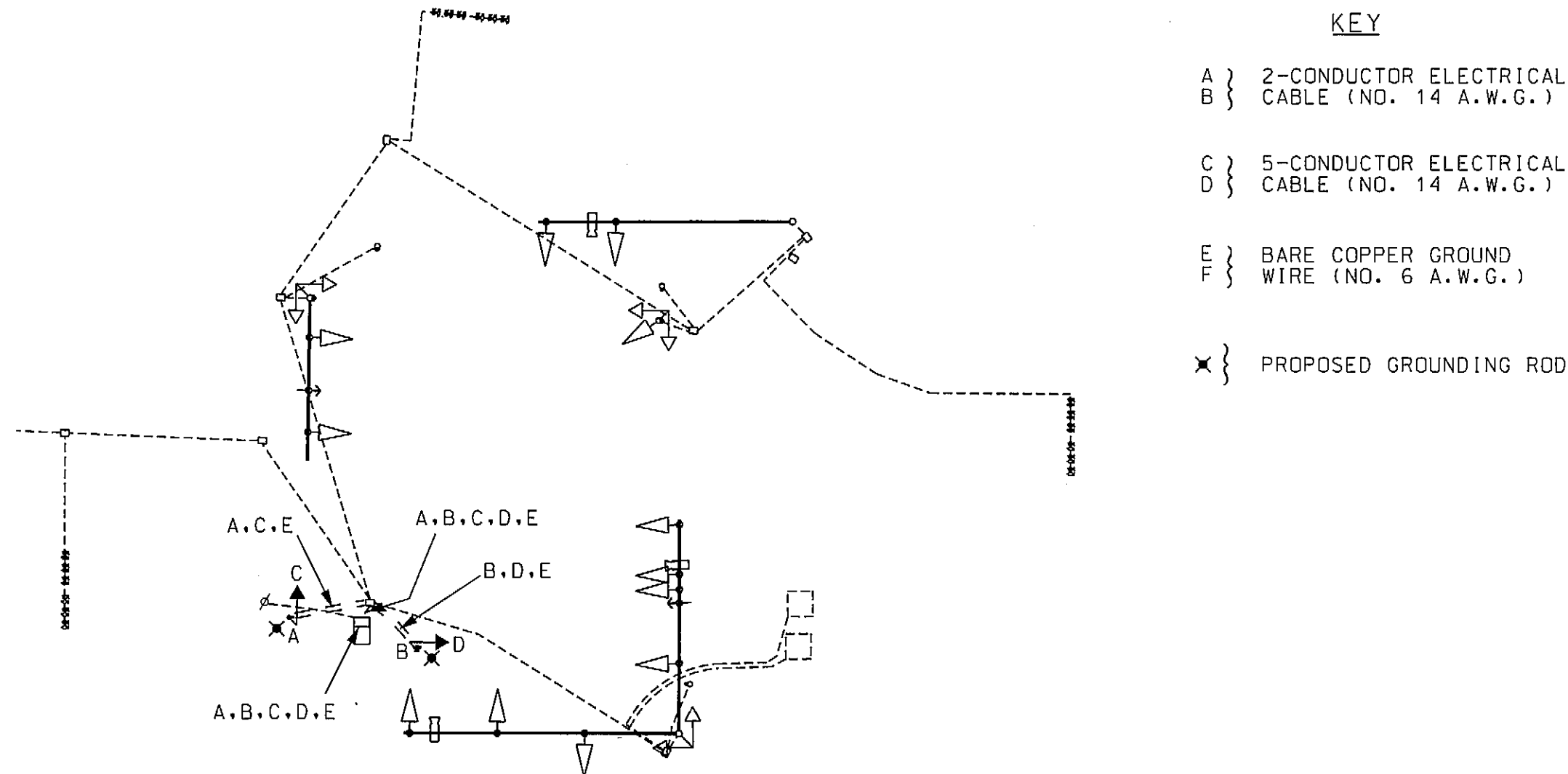
- VIDEO CAMERA LOCATION/ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
- PAVEMENT MARKINGS DETAILED ARE PROPOSED AND ARE TO BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH MD-SHA STANDARDS. ALL OTHER PAVEMENT MARKINGS ARE TO BE CONSIDERED AS EXISTING.
- GEOMETRICS SHALL BE CONFIRMED PRIOR TO THE INSTALLATION OF SIGNAL EQUIPMENT. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE PROJECT ENGINEER IMMEDIATELY.
- PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18 IN. FROM A 60 IN. X 60 IN. LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
- THE 10 FT. SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
- PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- THE LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.08, 4E.10 & FIG 4E-314E-4 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- ALL UNUSED CABLE SHALL BE REMOVED.

Phase Chart

1	2	3	4	5	6	7	8	9	10	11	12	13,16	14,15	17,20	18,19
(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)
(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)

PHASE 2 AND 5	R	R	←G-	←G-	←G-	G	G	R	R	R	R	R	DW	DW	DW	DW
5 CHANGE	R	R	←Y-	←Y-	←Y-	G	G	R	R	R	R	R	DW	DW	DW	DW
PHASE 2 AND 6	G	G	←R-	←R-	←R-	G	G	R	R	R	R	R	WK	WK	DW	DW
PED CLEARANCE	G	G	←R-	←R-	←R-	G	G	R	R	R	R	R	FLDW	FLDW	DW	DW
2 AND 6 CHANGE	Y	Y	←R-	←R-	←R-	Y	Y	R	R	R	R	R	DW	DW	DW	DW
PHASE 4 AND 8	R	R	←R-	←R-	←R-	R	R	G	G	G	G	G	DW	DW	DW	DW
4 AND 8 CHANGE	R	R	←R-	←R-	←R-	R	R	Y	Y	Y	Y	Y	DW	DW	DW	DW
PHASE ALT 4 AND 8 ALT	R	R	←R-	←R-	←R-	R	R	G	G	G	G	G	DW	DW	WK	WK
PED CLEARANCE	R	R	←R-	←R-	←R-	R	R	G	G	G	G	G	DW	DW	FLDW	FLDW
ALT 4 AND 8 ALT CHANGE	R	R	←R-	←R-	←R-	R	R	Y	Y	Y	Y	Y	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK

Wiring Diagram



MD-AMD Tracking No.: 12APBA017



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 45 @ FAIRMOUNT AVE /CARVER SCHOOL ENTR

TOWNSON, MD

GENERAL INFORMATION PLAN

SCALE N/A DATE May 9, 2013 CONTRACT NO. BW996M82

DESIGNED BY J. Dimdorfer/TTG COUNTY Baltimore
DRAWN BY J. Dimdorfer/TTG LOGMILE 03045002.78
CHECKED BY W. Mahan TMS NO. L975
F.A.P. NO. N/A TOD NO. N/A

TS NO. 398/F DRAWING 5G - 01 OF 01 SHEET NO. 2 OF 2

PLATTED: Tuesday, May 21, 2013 AT 08:21 AM
FILE: F:\2011\2011-0801A\DES\signal plan.dgn

The Traffic Group, Inc.
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9900 Franklin Square Drive
Baltimore, Maryland 21236
410-931-6600
1-800-583-8411
Fax 410-931-6601
"Merging Innovation and Excellence"®

THESE PLANS ARE APPROVED FOR CONSTRUCTION FOR A PERIOD OF 1 YEAR FROM THE DATE OF APPROVAL. SHOULD CONSTRUCTION NOT BEGIN WITHIN THIS TIME FRAME THESE PLANS SHALL BE NULL AND VOID WITHOUT A REVIEW FROM THE TRAFFIC ENGINEERING DESIGN DIVISION.



PROFESSIONAL CERTIFICATION -
I HEREBY CERTIFY THAT THESE PLANS WERE
PREPARED OR APPROVED BY ME, AND THAT I
AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MARYLAND.
LICENSE NO.: 33316
EXPIRATION DATE: 2/13/14